

WILDLIFE WATCH the Indian Himalayan Region – a new initiative



Under National Mission for sustaining
the Himalayan Ecosystem (NMSHE)

Team-NMSHE

Designed and presented by **Krishnendu Mondal**

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Objectives

Building capacities of stakeholders for sensitization and development of action plans for climate change impact mitigation

Preparation of 'Operational Guide for Monitoring Wildlife Species in the Indian Himalayan Region' (IHR)

Generating awareness and monitoring of indicator/endangered species in the IHR by various stakeholders

Methodology

- ▶ The selection of species for 'Wildlife Watch' was based on evaluation and scoring of following criteria
- ▶ (a) Status (endangered/threatened) based on IUCN and Wildlife (Protection) Act, 1972;
- ▶ (b) Functional role (apex predator/key stone species);
- ▶ (c) Values (charismatic, cultural, umbrella/flagship species);
- ▶ (d) Detectability in the wild; and
- ▶ (e) Sensitivity to climate change or climate variability

13 species were selected for Wildlife Watch (Series)

Snow Leopard



Conservation status:

IUCN: Endangered

IWPA: Schedule-I

CITES: Appendix-I

U.S. ESA: Endangered

Monitoring Protocol

- Following prey species groups
- Trail sampling for indirect evidences
- Camera trapping

Mammals

Musk Deer

Conservation Status:

IUCN: Vulnerable

IWPA: Schedule I

CITES: Appendix - I

U.S. ESA: Endangered

Monitoring Protocol

- Trail sampling for indirect evidences
- Silent drive count
- Pellet count
- Camera trapping

Western Tragopan

Conservation Status

IUCN: Vulnerable

IWPA: Schedule I

CITES: Appendix I

Monitoring Protocol

- Occasional encounter
- Call count
- Trail sampling
- Camera trapping



K. Ramesh

Himalayan Snowcock

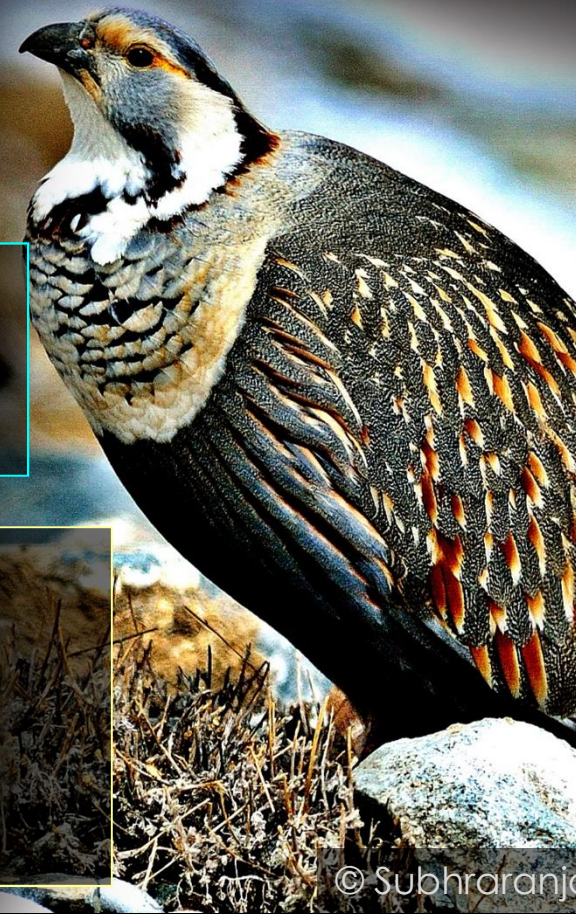
Conservation status

IUCN: Least concern

IWPA: Schedule IV

Monitoring Protocol

- Occasional encounter
- Trail sampling
- Camera trapping



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Herpeto-fauna

Conservation Status:
IUCN: least concern (LC)

Monitoring Protocol

Visual encounter survey
Mark-recapture (only for beautiful stream frog)
Dip-netting, Funnel trapping for tadpole
Collection and Identification

Beautiful Stream Frog



© Dr. Abhijit Das

Murree Frog



© Dr. Abhijit Das

Fishes

Conservation Status:

IUCN: Golden Mahseer - Endangered (En)
Himalayan Snow Trout - Vulnerable (V)

Monitoring Protocol

- Record in the wild and in the local market
- Sampling with the cast nets and angling

Golden Mahseer



© Dr. Nishikant Gupta

Himalayan Snow Trout



© Dr. J.A. John

Golden Birdwing



Conservation Status:

N: Not assessed

S: Appendix II

Monitoring Protocol

- Observe in the open patches of the forest, sailing 4-5 m above ground
- Species can be monitored through trail sampling and opportunistic observations



anish Bharadwaj

Invertebrate

Relict Dragonfly



Conservation Status:

IUCN: Near threatened (NT)

Monitoring Protocol

Around streams, lakes and aquatic habitats
Selected habitat may be monitored through trail sampling and opportunistic observations



© Sohini Chaudh

Himalayan Birch

Conservation Status:
IUCN: Least Concern (LC)

Monitoring Protocol
Phenology and
Regeneration and
population structure

Chilgoza Pine

Conservation Status:
IUCN: Near threatened (NT)

Monitoring Protocol

- Phenology
- Regeneration and population structure

Flora White Lily

Monitoring Protocol

- Population structure
- Phenology,
- Seed setting and
- Dispersal pattern

Conservation Status
IUCN: Critically Endangered

Wildlife Watch Survey Record Sheet

Species Name	<input type="text"/>
Scientific Name (if known)	<input type="text"/>
Number of Individual/s	<input type="text"/>
	<input type="text"/> Male; <input type="text"/> Female; <input type="text"/> Unknown
Observation type:	<input type="text"/>
Observed; F- Tracks/pugmarks; H-Hair/feather/skin; R- road kill; K- Kill; B- /teeth; S- scat/pellet; V- Vocalization	
Location/ Nearest landmark	<input type="text"/>
Coordinates (if possible)	<input type="text"/>
Other Information	<input type="text"/>
Name	<input type="text"/>
Contact Number	<input type="text"/>
Email ID	<input type="text"/>

Please send the details of your record to
nmshe@wii.gov.in or
message in +91 9410915297

Future Plans

- WII proposes to bring out a similar Series **every year for 12 - 15 species** in the IHR
- Interest could be generated on Wildlife Watch in the IHR through this publication, and it would be of **great use for monitoring of species** by different stakeholders



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